

TFW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor: Bailey, Todd C.

App. No.: 10/755,997 GPAU: 1756

Filing Date: January 13, 2004 Examiner: Unassigned

Dkt. No.: PA99-41D21 Conf. No.: 1475

For: Imprint Lithography Template Having a Feature Size Under
250 nm

INFORMATION DISCLOSURE STATEMENT

Mail Stop AMENDMENT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The following information is submitted in compliance with Applicants' duty of disclosure and pursuant to 37 C.F.R. § 1.56, § 1.97 and § 1.98. The undersigned brings the patents, publications, applications or other information identified in the attached:

☒ Form(s) PTO/SB/08A and/or PTO/SB/08B or PTO/1449

☐ Other:

to the Examiner's attention in the above-identified application. It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

For the convenience of the Examiner, references cited in the parent patent application are noted on the PTO/SB/08 forms in bold font. Copies of these references are not required nor provided.

This Information Disclosure Statement is being filed:

before the mailing date of a first Office action on the merits or before the mailing date of a first Office action after

the filing of a request for continued examination under § 1.114. Therefore, no fee is believed required.

Applicants do not believe that any additional fees are due, but if the Commissioner believes additional fees are due, the Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number 502650.

CERTIFICATE OF TRANSMISSION

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as either First Class Mail or Express Mail, in an envelope addressed to the Commissioner for Patents.

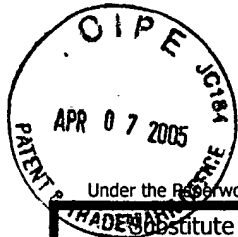
Signed: Katrina Prati
Typed Name: Katrina Prati

Date: 3-30-05

Respectfully Submitted,



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PTO/SB/08A (08-03)

Approved for use through 7/31/2006. OMB 0651-0031

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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 7

Complete if Known

APPLICATION NUMBER	10/755,997
FILING DATE	01/13/2004
FIRST NAMED INVENTOR	Bailey et al.
Group Art Unit	1756
Examiner Name	Unassigned
Attorney Docket Number	PA99-41D21

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code* (if known)			
	B1	4,731,155		Napoli et al.	3/15/1988	
	B2	5,425,848		Haisma et al.	6/20/1995	
	B3	5,772,905		Chou	6/30/1998	
	B4	6,309,580	B1	Chou	10/30/2001	
	B5	6,334,960	B1	Willson et al.	1/1/2002	
	B6	6,391,217	B2	Schaffer et al.	5/21/2002	
	B7	6,517,977	B2	Resnick et al.	2/11/2003	
	B8	10/687,519		Nguyen et al.	10/16/2003	
	B9	2002/0177319	A1	Chou	11/28/2002	
	B10	2003/0205657	A1	Voisin	11/6/2003	
	B11	6,713,238	B1	Chou et al.	3/30/2004	
	B12	2003/0113638	A1	Mancini et al.	6/19/2003	
	B13	6,646,662	B1	Nebashi et al.	11/11/2003	
	B14	6,776,094	B1	Whitesides et al.	8/17/2004	
	B15	6,518,189	B1	Chou	2/11/2003	
	B16	2002/0132482	A1	Chou	9/19/2002	
	B17	2002/0167117	A1	Chou	11/14/2002	
	B18	6,482,742	B1	Chou	11/19/2002	

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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending on the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450.. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT***(use as many sheets as necessary)*

Sheet 2 of 7

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		Number	Kind Code ² (if known)			

	B19	2003/0080471	A1	Chou	5/1/2003	
	B20	2004/0036201	A1	Chou et al.	2/26/2004	
	B21	2004/0192041	A1	Jeong et al.	9/30/2004	
	B22	6,828,244	B2	Chou	12/7/2004	
	B23	6,809,356	B2	Chou	10/26/2004	
	B24	2004/0197843	A1	Chou et al.	10/7/2004	
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	B26	2004/0137734	A1	Chou et al.	7/15/2004	
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	B31	2003/0034329	A1	Chou	2/20/2003	
	B32	2002/0042027	A1	Chou et al.	4/11/2002	
	B33	10/666,527		Bailey et al.	9/18/2003	
	B34	6,580,172	B2	Mancini et al.	6/17/2003	
	B35	4,722,878		Watakabe et al.	2/2/1988	
	B36	2002/0175298	A1	Moniwa et al.	11/28/2002	

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		Number	Kind Code ² (if known)			

	B37	10/670,980		Sreenivasan et al.	9/25/2003	
	B38	10/706,537		Sreenivasan et al.	11/12/2003	
	B39	10/833,240		Watts et al.	4/27/2004	
	B40	10/782,187		McMackin et al.	2/19/2004	
	B41	10/895,214		Voison	7/20/2004	
	B42	11/051,941		McMackin et al.	2/4/2005	
	B43	4,512,848		Deckman et al.	4/23/1985	
	B44	6,517,995	B1	Jacobenson et al.	2/11/2003	
	B45	2004/0110856	A1	Young et al.	6/10/2004	
	B46	6,716,754	B2	Hofmann et al.	4/6/2004	
	B47	2002/0135099	A1	Robinson et al.	9/26/2002	
	B48	5,028,366		Harakal et al.	7/2/1991	
	B49	5,601,641		Stephens	2/11/1997	
	B50	5,849,209		Kindt-Larsen et al.	12/15/1998	
	B51	5,849,222		Jen et al.	12/15/1998	

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FOREIGN PATENT DOCUMENTS								
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		Office 3	Number ⁴	Kind Code ⁵ (if known)				

	B52	WO	00/21689		Chou et al.	4/20/2000		
	B53	JP	02-92603		Kurikawa et al.	4/3/1990		
	B54	JP	02-24848		Kamio	1/26/1990		
	B55	WO	01/47003		Steiner et al.	6/28/2001		
	B56	WO	02/07199		Chou	1/24/2002		
	B57	WO	2004/114016		Chou et al.	12/29/2004		
	B58	WO	99/05724		Chou et al.	2/4/1999		
	B59	WO	03/010289		Chou et al.	2/6/2003		
	B60	WO	03/079416		Chou	9/25/2003		
	B61	WO	03/099536		Chou et al.	12/4/2003		

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²

	B62	Chou, Nanoimprint Lithography and Lithographically Induced Self-Assembly, MRS Bulletin, pp. 512 - 517, 7/1/2001	
	B63	Choi et al., Design of Orientation Stages for Step and Flash Imprint Lithography, Precision Engineering, pp. 192 - 199, 1/1/2001	
	B64	Colburn et al., Step and Flash Imprint Lithography for sub-100 nm Patterning, Proceedings of SPIE Vol. 3997, pp. 453 - 457, 1/1/2000	
	B65	Chou et al., Imprint Lithography with 25-Nanometer Resolution, Science Vol. 272, pp. 85 - 87, 4/5/1996	
	B66	Chou et al., Imprint Lithography with Sub-10 nm Feature Size and High Throughput, Microelectronic Engineering 35, pp. 237 - 240, 1/1/1997	
	B67	Haisma et al., Mold-assisted Nanolithography: A Process for Reliable Pattern Replication, J. Vac. Sci. Technol. B, pp 4124 - 4128, 11/1/1996	
	B68	Chou et al., Imprint of Sub-25 nm Vias and Trenches in Polymers, Appl. Phys. Lett. 67 (21), 11/20/1995	
	B69	Johnson et al., Advances in Step and Flash Imprint Lithography, SPIE Microlithography Conference, 2/23/2003	
	B70	Chou et al., Lithographically Induced Self-assembly of Periodic Polymer Micropillar Arrays, J. Vac. Sci. Technol. B 17 (6), pp. 3197 - 3202, 11/1/1999	

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ² ~
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	B71	Colburn et al., Step and Flash Imprint Lithography: A New Approach to High-Resolution Patterning, Proc. Of SPIE, vol. 3676, 3/1/1999	
	B72	Heidari, Nanoimprint Lithography at the 6 in. Wafer Scale, J. Vac. Sci. Technol. B 18(6), pp. 3557 - 3560, 11/1/2000	
	B73	Translation of Japanese Patent 02-92603	
	B74	Translation of Japanese Patent 02-24848	
	B75	Chou et al., Ultrafast and Direct Imprint of Nanostructures in Silicon, Nature, Col. 417, (June 2002), pp. 835-837, 6/1/2002	
	B76	Chou et al., Nanoimprint Lithography, Journal of Vacuum Science Technolgy B 14(16), pp. 4129-4133, 11/1/1996	
	B77	Colburn et al., Development and Advantages of Step-and-Flash Lithography, Solid State Technology, 7/1/2001	
	B78	Resnick et al., High Resolution Templates for Step and Flash Imprint Lithography, Journal of Microlithography, Microfabrication, and Microsystems. Vol 1. No. 3., 10/1/2002	
	B79	Colburn et al., Characterization and Modeling of Volumetric and Mechanical Properties for Step and Flash Imprint Lithography Photopolymers, Journal of Vacuum Science Technology. Vol b. 19(6), 11/1/2001	

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	B80	Bailey et al., Step and Flash Imprint Lithography: Defect Analysis, Journal of Vacuum Science, B 19(6), pp. 2806-2810, 11/1/2001	
	B81	Bailey et al., Step and Flash Imprint Lithography: Template Surface Treatment and Defect Analysis, Journal of Vacuum Science, B 18(6), pp. 3572-3577, 11/1/2000	
	B82	Schneider et al., Stripes of Partially Fluorinated Alkyl Chains: Dipolar Langmuir Monolayers	

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